

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934123

Luminaire Tested: SQ4-FA-025U-125D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934123
REPORT IS A COMBINATION OF REPORTS P933687 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

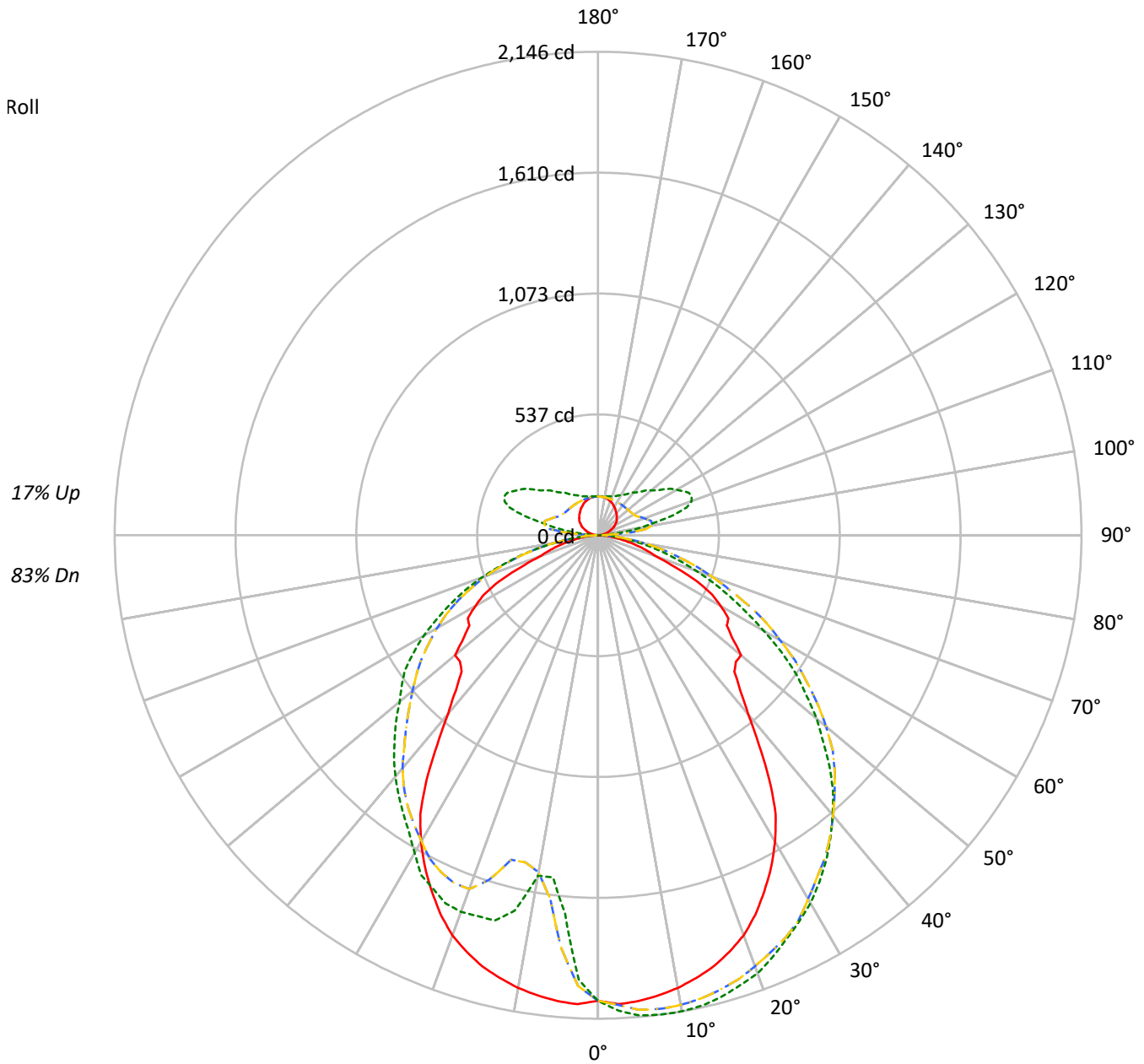
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6474.2 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - · 90°-270° - · - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83	83	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	70	70	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	59	59	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	50	50	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	43	43	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	37	37	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32	32	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	29	29	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	26	26	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	23	23	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21	21	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12779	12779	12779	12779
5°	12870	12900	12870	10143
10°	12779	12707	12779	9084
15°	12635	12432	12635	10380
20°	12367	12106	12367	10403
25°	11820	11630	11820	10182
30°	11117	11235	11117	9698
35°	9906	10736	9906	9166
40°	8249	10148	8249	8764
45°	7366	9459	7366	8302
50°	7820	8638	7820	7838
55°	7350	7753	7350	7570
60°	7567	6586	7567	6933
65°	6850	5444	6850	6085
70°	4732	4338	4732	5101
75°	4134	3206	4134	3840
80°	3307	2120	3307	2308
85°	1866	1123	1866	955

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11297 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	2.9
10°-20°	529.4	8.2
20°-30°	818.4	12.6
30°-40°	977.0	15.1
40°-50°	982.7	15.2
50°-60°	855.1	13.2
60°-70°	606.3	9.4
70°-80°	320.8	5.0
80°-90°	80.5	1.2
90°-100°	84.0	1.3
100°-110°	220.9	3.4
110°-120°	229.0	3.5
120°-130°	183.7	2.8
130°-140°	144.2	2.2
140°-150°	110.6	1.7
150°-160°	79.7	1.2
160°-170°	48.8	0.8
170°-180°	16.5	0.3
0°-30°	1534.3	23.7
0°-40°	2511.3	38.8
0°-60°	4349.2	67.2
0°-90°	5356.8	82.7
90°-120°	534.0	8.2
90°-150°	972.5	15.0
90°-180°	1117.0	17.3
0°-180°	6474.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2066	2066	2066	2066	2066	
5°	2076	2140	2076	1683	2076	197
15°	1982	2120	1982	1771	1982	558
25°	1745	1978	1745	1732	1745	801
35°	1327	1765	1327	1507	1327	821
45°	856	1454	856	1276	856	686
55°	698	1073	698	1048	698	641
65°	485	647	485	723	485	463
75°	184	307	184	367	184	193
85°	31	78	31	66	31	42
90°	1	4	1	4	1	2
95°	11	51	11	51	11	12
105°	40	346	40	346	40	42
115°	71	445	71	445	71	70
125°	98	355	98	355	98	87
135°	117	275	117	275	117	91
145°	136	223	136	223	136	85
155°	154	192	154	192	154	71
165°	166	179	166	179	166	47
175°	172	174	172	174	172	16
180°	172	172	172	172	172	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2083.3	2083.3	2095.1	2098.9	2098.9	2093.1	2087.2	2093.1	2110.7	2116.6	2114.6
5°	2075.5	2091.2	2112.6	2116.6	2120.5	2118.5	2114.6	2118.5	2138.1	2142.0	2143.9
7.5°	2059.9	2089.2	2116.6	2122.4	2128.3	2122.4	2120.5	2124.4	2143.9	2147.8	2147.8
10°	2040.3	2081.4	2112.6	2116.6	2122.4	2116.6	2116.6	2124.4	2143.9	2147.8	2149.8
12.5°	2013.0	2069.7	2098.9	2102.9	2110.7	2108.7	2106.8	2114.6	2134.1	2138.1	2138.1
15°	1981.7	2048.1	2075.5	2079.5	2093.1	2089.2	2089.2	2097.0	2118.5	2124.4	2122.4
17.5°	1938.7	2020.8	2052.0	2057.9	2067.7	2065.8	2067.7	2075.5	2095.1	2098.9	2100.9
20°	1889.9	1983.7	2020.8	2026.6	2036.4	2036.4	2036.4	2046.2	2065.8	2073.5	2073.5
22.5°	1823.4	1944.6	1983.7	1987.6	1999.3	1999.3	2003.2	2016.9	2034.5	2036.4	2036.4
25°	1745.2	1901.6	1934.8	1946.6	1958.3	1964.1	1970.0	1977.8	1983.7	1981.7	1983.7
27.5°	1663.1	1846.8	1889.9	1897.7	1913.3	1919.1	1927.0	1928.9	1930.9	1936.8	1932.9
30°	1571.3	1770.6	1835.1	1842.9	1868.3	1872.3	1864.5	1868.3	1878.1	1882.0	1886.0
32.5°	1467.7	1657.3	1778.5	1796.0	1819.5	1807.8	1805.8	1811.7	1827.3	1827.3	1831.2
35°	1327.0	1569.3	1725.7	1741.4	1758.9	1745.2	1753.1	1755.0	1764.8	1770.6	1768.7
37.5°	1172.6	1493.1	1671.0	1682.7	1696.4	1678.8	1690.5	1696.4	1704.2	1700.3	1700.3
40°	1035.8	1373.9	1606.5	1614.3	1626.0	1612.3	1624.1	1628.0	1631.9	1628.0	1626.0
42.5°	934.2	1242.9	1538.1	1547.9	1540.0	1549.8	1553.7	1561.6	1555.6	1547.9	1547.9
45°	856.0	1207.8	1463.8	1475.6	1463.8	1479.5	1485.3	1485.3	1467.7	1463.8	1461.8
47.5°	830.6	1137.4	1389.5	1389.5	1383.7	1403.2	1413.0	1399.3	1381.7	1375.8	1375.8
50°	828.7	1059.3	1287.9	1280.1	1307.5	1330.9	1321.2	1307.5	1293.8	1272.3	1272.3
52.5°	752.4	963.5	1157.0	1186.3	1229.3	1242.9	1227.3	1213.7	1190.2	1180.4	1172.6
55°	697.7	863.8	1037.7	1096.4	1141.4	1158.9	1129.6	1116.0	1080.8	1074.9	1071.0
57.5°	686.0	719.2	928.3	1002.6	1057.3	1055.4	1037.7	1012.3	983.1	977.2	975.2
60°	629.3	519.8	811.0	899.0	955.6	949.8	934.2	910.8	883.3	879.5	875.6
62.5°	570.6	377.2	678.1	777.9	857.9	856.0	842.3	807.1	787.6	777.9	770.0
65°	484.7	316.6	482.7	646.9	762.2	766.1	736.8	711.4	689.9	678.1	676.2
67.5°	369.4	258.0	326.4	539.4	670.4	666.4	629.3	617.5	590.2	584.4	572.6
70°	273.6	172.0	226.7	437.7	580.4	570.6	541.4	527.7	502.3	488.6	480.8
72.5°	226.7	138.8	166.1	340.0	488.6	476.9	451.5	435.8	414.3	402.6	394.8
75°	183.7	146.6	127.0	252.1	396.7	388.9	365.4	349.8	332.3	316.6	318.5
77.5°	134.8	136.8	101.6	185.6	314.6	302.9	289.2	269.7	261.9	246.2	246.2
80°	101.6	107.5	76.2	127.0	226.7	226.7	215.0	201.3	187.6	179.8	179.8
82.5°	68.4	68.4	56.7	80.2	154.4	148.5	140.7	136.8	129.0	125.0	125.0
85°	31.3	39.1	35.2	48.9	84.0	87.9	87.9	84.0	82.1	78.2	80.2
87.5°	9.8	17.6	21.5	27.3	43.0	45.0	46.9	46.9	46.9	48.9	48.9
90°	1.2	2.1	3.0	3.2	5.1	7.5	8.8	7.8	5.9	4.4	4.4
92.5°	4.6	12.5	20.3	22.3	31.4	43.5	49.5	43.4	31.1	21.9	21.1
95°	11.1	25.5	39.9	43.5	77.2	122.2	144.7	129.1	97.9	74.6	72.0
97.5°	19.2	31.9	44.6	47.7	104.0	179.0	216.5	206.7	187.0	172.2	167.2
100°	25.5	37.0	48.5	51.4	113.8	197.0	238.6	239.3	240.8	241.9	235.9
102.5°	30.8	41.6	52.3	55.0	118.3	202.7	244.9	257.4	282.5	301.4	296.2
105°	39.8	48.9	58.0	60.3	121.6	203.3	244.2	272.3	328.6	370.8	368.0
107.5°	49.0	57.5	66.0	68.1	122.2	194.3	230.3	269.6	348.0	406.9	407.6
110°	55.3	63.0	70.6	72.5	121.3	186.3	218.8	262.6	350.4	416.1	419.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	61.4	68.8	76.0	77.8	121.3	179.3	208.2	253.1	342.9	410.2	414.6
115°	70.7	77.5	84.2	85.9	122.4	171.2	195.6	238.9	325.3	390.2	396.3
117.5°	79.8	85.9	92.0	93.6	124.7	166.2	187.0	226.0	304.0	362.5	369.3
120°	85.2	90.9	96.6	98.1	126.6	164.5	183.5	219.1	290.4	344.0	350.6
122.5°	90.3	96.2	101.9	103.4	129.2	163.6	180.8	212.9	277.1	325.3	331.9
125°	98.3	103.6	109.0	110.3	132.8	162.9	177.9	205.2	259.8	300.7	306.7
127.5°	104.8	110.1	115.5	116.8	136.4	162.5	175.5	198.9	245.8	280.9	286.0
130°	108.3	114.0	119.7	121.2	139.0	162.7	174.6	195.4	237.1	268.3	273.0
132.5°	111.9	117.7	123.4	124.8	141.1	162.9	173.8	192.4	229.8	257.7	261.9
135°	117.2	122.4	127.7	129.0	143.5	162.8	172.4	188.0	219.3	242.7	246.3
137.5°	122.7	127.8	133.0	134.3	146.9	163.8	172.2	185.4	211.8	231.6	234.5
140°	127.1	131.9	136.7	137.9	149.1	163.9	171.3	182.7	205.6	222.7	225.5
142.5°	130.6	135.0	139.4	140.5	150.8	164.5	171.3	181.3	201.4	216.4	218.8
145°	135.9	139.8	143.6	144.6	153.2	164.5	170.2	178.3	194.7	207.1	208.8
147.5°	141.2	145.0	148.8	149.7	156.5	165.6	170.2	176.6	189.5	199.2	200.7
150°	144.7	148.1	151.5	152.4	158.3	166.2	170.2	175.6	186.5	194.7	195.9
152.5°	148.3	150.8	153.5	154.1	159.5	166.6	170.2	174.8	184.1	191.1	192.0
155°	153.6	155.5	157.5	157.9	162.0	167.5	170.2	173.9	181.3	186.8	187.4
157.5°	157.5	159.4	161.2	161.7	164.5	168.3	170.2	173.0	178.8	183.1	183.6
160°	160.2	161.7	163.1	163.5	165.7	168.7	170.2	172.6	177.6	181.3	181.5
162.5°	162.9	163.9	165.0	165.3	166.9	169.1	170.2	172.2	176.4	179.6	179.8
165°	165.8	166.7	167.7	167.9	168.7	169.7	170.2	171.6	174.6	176.9	177.1
167.5°	168.4	168.9	169.3	169.5	170.1	170.9	171.3	172.3	174.3	175.7	175.8
170°	170.2	170.6	171.1	171.2	171.2	171.3	171.3	172.3	174.3	175.7	175.7
172.5°	171.1	171.2	171.3	171.3	171.3	171.3	171.3	172.1	173.6	174.8	174.7
175°	172.4	172.4	172.4	172.4	172.0	171.6	171.3	171.8	172.8	173.6	173.6
177.5°	172.4	172.4	172.4	172.4	172.1	171.7	171.6	171.9	172.7	173.3	173.2
180°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2118.5	2112.6	2118.5	2114.6	2116.6	2110.7	2093.1	2087.2	2093.1	2098.9	2098.9
5°	2143.9	2140.0	2143.9	2143.9	2142.0	2138.1	2118.5	2114.6	2118.5	2120.5	2116.6
7.5°	2151.8	2145.9	2151.8	2147.8	2147.8	2143.9	2124.4	2120.5	2122.4	2128.3	2122.4
10°	2151.8	2145.9	2151.8	2149.8	2147.8	2143.9	2124.4	2116.6	2116.6	2122.4	2116.6
12.5°	2142.0	2138.1	2142.0	2138.1	2138.1	2134.1	2114.6	2106.8	2108.7	2110.7	2102.9
15°	2126.4	2120.5	2126.4	2122.4	2124.4	2118.5	2097.0	2089.2	2089.2	2093.1	2079.5
17.5°	2102.9	2095.1	2102.9	2100.9	2098.9	2095.1	2075.5	2067.7	2065.8	2067.7	2057.9
20°	2075.5	2069.7	2075.5	2073.5	2073.5	2065.8	2046.2	2036.4	2036.4	2036.4	2026.6
22.5°	2032.5	2026.6	2032.5	2036.4	2036.4	2034.5	2016.9	2003.2	1999.3	1999.3	1987.6
25°	1983.7	1977.8	1983.7	1983.7	1981.7	1983.7	1977.8	1970.0	1964.1	1958.3	1946.6
27.5°	1936.8	1932.9	1936.8	1932.9	1936.8	1930.9	1928.9	1927.0	1919.1	1913.3	1897.7
30°	1889.9	1886.0	1889.9	1886.0	1882.0	1878.1	1868.3	1864.5	1872.3	1868.3	1842.9
32.5°	1831.2	1827.3	1831.2	1831.2	1827.3	1827.3	1811.7	1805.8	1807.8	1819.5	1796.0
35°	1770.6	1764.8	1770.6	1768.7	1770.6	1764.8	1755.0	1753.1	1745.2	1758.9	1741.4
37.5°	1700.3	1694.4	1700.3	1700.3	1700.3	1704.2	1696.4	1690.5	1678.8	1696.4	1682.7
40°	1628.0	1620.2	1628.0	1626.0	1628.0	1631.9	1628.0	1624.1	1612.3	1626.0	1614.3
42.5°	1545.9	1543.9	1545.9	1547.9	1547.9	1555.6	1561.6	1553.7	1549.8	1540.0	1547.9
45°	1457.9	1454.1	1457.9	1461.8	1463.8	1467.7	1485.3	1485.3	1479.5	1463.8	1475.6
47.5°	1364.1	1354.4	1364.1	1375.8	1375.8	1381.7	1399.3	1413.0	1403.2	1383.7	1389.5
50°	1264.5	1266.4	1264.5	1272.3	1272.3	1293.8	1307.5	1321.2	1330.9	1307.5	1280.1
52.5°	1166.8	1164.8	1166.8	1172.6	1180.4	1190.2	1213.7	1227.3	1242.9	1229.3	1186.3
55°	1069.0	1072.9	1069.0	1071.0	1074.9	1080.8	1116.0	1129.6	1158.9	1141.4	1096.4
57.5°	971.3	965.4	971.3	975.2	977.2	983.1	1012.3	1037.7	1055.4	1057.3	1002.6
60°	857.9	850.2	857.9	875.6	879.5	883.3	910.8	934.2	949.8	955.6	899.0
62.5°	758.3	744.6	758.3	770.0	777.9	787.6	807.1	842.3	856.0	857.9	777.9
65°	652.7	646.9	652.7	676.2	678.1	689.9	711.4	736.8	766.1	762.2	646.9
67.5°	557.0	557.0	557.0	572.6	584.4	590.2	617.5	629.3	666.4	670.4	539.4
70°	469.0	467.1	469.0	480.8	488.6	502.3	527.7	541.4	570.6	580.4	437.7
72.5°	385.0	383.1	385.0	394.8	402.6	414.3	435.8	451.5	476.9	488.6	340.0
75°	310.8	306.8	310.8	318.5	316.6	332.3	349.8	365.4	388.9	396.7	252.1
77.5°	238.5	238.5	238.5	246.2	246.2	261.9	269.7	289.2	302.9	314.6	185.6
80°	177.9	175.9	177.9	179.8	179.8	187.6	201.3	215.0	226.7	226.7	127.0
82.5°	125.0	121.2	125.0	125.0	125.0	129.0	136.8	140.7	148.5	154.4	80.2
85°	78.2	78.2	78.2	80.2	78.2	82.1	84.0	87.9	87.9	84.0	48.9
87.5°	50.8	48.9	50.8	48.9	48.9	46.9	46.9	46.9	45.0	43.0	27.3
90°	4.4	4.4	4.4	4.4	4.4	5.9	7.8	8.8	7.5	5.1	3.2
92.5°	17.6	14.1	17.6	21.1	21.9	31.1	43.4	49.5	43.5	31.4	22.3
95°	61.4	50.8	61.4	72.0	74.6	97.9	129.1	144.7	122.2	77.2	43.5
97.5°	147.1	126.9	147.1	167.2	172.2	187.0	206.7	216.5	179.0	104.0	47.7
100°	211.9	187.9	211.9	235.9	241.9	240.8	239.3	238.6	197.0	113.8	51.4
102.5°	275.7	255.1	275.7	296.2	301.4	282.5	257.4	244.9	202.7	118.3	55.0
105°	357.0	345.9	357.0	368.0	370.8	328.6	272.3	244.2	203.3	121.6	60.3
107.5°	410.2	412.9	410.2	407.6	406.9	348.0	269.6	230.3	194.3	122.2	68.1
110°	430.5	442.1	430.5	419.0	416.1	350.4	262.6	218.8	186.3	121.3	72.5



TEST NUMBER: P934123

CATALOG NUMBER: SQ4-FA-025U-125D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	432.3	450.0	432.3	414.6	410.2	342.9	253.1	208.2	179.3	121.3	77.8
115°	420.8	445.4	420.8	396.3	390.2	325.3	238.9	195.6	171.2	122.4	85.9
117.5°	396.6	423.7	396.6	369.3	362.5	304.0	226.0	187.0	166.2	124.7	93.6
120°	377.0	403.4	377.0	350.6	344.0	290.4	219.1	183.5	164.5	126.6	98.1
122.5°	357.9	383.9	357.9	331.9	325.3	277.1	212.9	180.8	163.6	129.2	103.4
125°	330.6	354.7	330.6	306.7	300.7	259.8	205.2	177.9	162.9	132.8	110.3
127.5°	306.2	326.5	306.2	286.0	280.9	245.8	198.9	175.5	162.5	136.4	116.8
130°	291.8	310.5	291.8	273.0	268.3	237.1	195.4	174.6	162.7	139.0	121.2
132.5°	278.7	295.4	278.7	261.9	257.7	229.8	192.4	173.8	162.9	141.1	124.8
135°	260.7	275.2	260.7	246.3	242.7	219.3	188.0	172.4	162.8	143.5	129.0
137.5°	246.4	258.2	246.4	234.5	231.6	211.8	185.4	172.2	163.8	146.9	134.3
140°	236.5	247.6	236.5	225.5	222.7	205.6	182.7	171.3	163.9	149.1	137.9
142.5°	228.3	237.9	228.3	218.8	216.4	201.4	181.3	171.3	164.5	150.8	140.5
145°	216.1	223.3	216.1	208.8	207.1	194.7	178.3	170.2	164.5	153.2	144.6
147.5°	206.7	212.6	206.7	200.7	199.2	189.5	176.6	170.2	165.6	156.5	149.7
150°	200.7	205.6	200.7	195.9	194.7	186.5	175.6	170.2	166.2	158.3	152.4
152.5°	195.7	199.4	195.7	192.0	191.1	184.1	174.8	170.2	166.6	159.5	154.1
155°	189.8	192.3	189.8	187.4	186.8	181.3	173.9	170.2	167.5	162.0	157.9
157.5°	185.3	187.0	185.3	183.6	183.1	178.8	173.0	170.2	168.3	164.5	161.7
160°	182.5	183.5	182.5	181.5	181.3	177.6	172.6	170.2	168.7	165.7	163.5
162.5°	180.7	181.6	180.7	179.8	179.6	176.4	172.2	170.2	169.1	166.9	165.3
165°	178.1	179.1	178.1	177.1	176.9	174.6	171.6	170.2	169.7	168.7	167.9
167.5°	176.3	176.6	176.3	175.8	175.7	174.3	172.3	171.3	170.9	170.1	169.5
170°	175.7	175.7	175.7	175.7	175.7	174.3	172.3	171.3	171.3	171.2	171.2
172.5°	174.3	174.0	174.3	174.7	174.8	173.6	172.1	171.3	171.3	171.3	171.3
175°	173.6	173.6	173.6	173.6	173.6	172.8	171.8	171.3	171.6	172.0	172.4
177.5°	172.8	172.4	172.8	173.2	173.3	172.7	171.9	171.6	171.7	172.1	172.4
180°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4



TEST NUMBER: P934123

CATALOG NUMBER: SQ4-FA-025U-125D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2095.1	2083.3	2083.3	2063.8	2056.0	2050.1	2040.3	2011.0	2003.2	1995.4	2007.1
5°	2112.6	2091.2	2075.5	2040.3	2011.0	1999.3	1962.2	1891.8	1844.9	1809.7	1790.2
7.5°	2116.6	2089.2	2059.9	2005.2	1934.8	1903.5	1790.2	1661.2	1626.0	1594.7	1575.2
10°	2112.6	2081.4	2040.3	1958.3	1792.2	1737.4	1624.1	1540.0	1518.5	1512.7	1518.5
12.5°	2098.9	2069.7	2013.0	1876.2	1643.6	1606.5	1540.0	1491.2	1487.3	1497.0	1549.8
15°	2075.5	2048.1	1981.7	1766.8	1561.6	1534.1	1487.3	1469.7	1491.2	1559.6	1717.9
17.5°	2052.0	2020.8	1938.7	1659.3	1499.0	1479.5	1446.2	1481.4	1602.6	1694.4	1747.2
20°	2020.8	1983.7	1889.9	1581.0	1454.1	1436.4	1420.8	1579.1	1671.0	1704.2	1733.5
22.5°	1983.7	1944.6	1823.4	1526.4	1407.1	1393.5	1403.2	1633.9	1671.0	1694.4	1719.8
25°	1934.8	1901.6	1745.2	1483.3	1370.0	1354.4	1391.5	1628.0	1649.5	1655.3	1706.2
27.5°	1889.9	1846.8	1663.1	1444.3	1325.0	1319.2	1401.2	1602.6	1618.2	1624.1	1678.8
30°	1835.1	1770.6	1571.3	1403.2	1278.1	1276.2	1403.2	1571.3	1567.4	1583.0	1637.7
32.5°	1778.5	1657.3	1467.7	1352.4	1233.2	1231.2	1389.5	1524.4	1520.5	1542.0	1583.0
35°	1725.7	1569.3	1327.0	1293.8	1176.5	1178.5	1356.4	1469.7	1471.6	1491.2	1516.6
37.5°	1671.0	1493.1	1172.6	1229.3	1121.8	1121.8	1311.4	1418.9	1415.0	1420.8	1456.0
40°	1606.5	1373.9	1035.8	1145.2	1071.0	1065.1	1256.6	1364.1	1350.4	1348.5	1397.4
42.5°	1538.1	1242.9	934.2	1033.9	1012.3	1004.5	1190.2	1297.7	1272.3	1278.1	1340.6
45°	1463.8	1207.8	856.0	873.6	951.8	945.9	1117.9	1221.5	1203.9	1219.5	1284.0
47.5°	1389.5	1137.4	830.6	725.0	887.3	885.3	1037.7	1147.2	1137.4	1153.1	1221.5
50°	1287.9	1059.3	828.7	621.5	815.0	822.7	942.0	1074.9	1074.9	1088.5	1160.9
52.5°	1157.0	963.5	752.4	562.9	731.0	754.4	857.9	1012.3	1016.2	1030.0	1094.4
55°	1037.7	863.8	697.7	517.9	631.2	682.1	775.9	947.9	955.6	969.4	1028.0
57.5°	928.3	719.2	686.0	465.2	539.4	588.3	703.5	885.3	889.2	901.0	957.6
60°	811.0	519.8	629.3	408.5	459.3	496.4	637.1	811.0	824.7	832.5	881.4
62.5°	678.1	377.2	570.6	369.4	420.2	428.0	582.4	740.7	758.3	764.1	793.5
65°	482.7	316.6	484.7	336.2	379.1	381.1	523.8	668.4	684.0	693.8	715.3
67.5°	326.4	258.0	369.4	304.8	347.9	349.8	467.1	584.4	605.8	613.7	627.3
70°	226.7	172.0	273.6	271.7	312.7	316.6	406.5	508.1	527.7	533.5	541.4
72.5°	166.1	138.8	226.7	244.3	275.6	279.5	344.0	422.1	441.7	447.5	451.5
75°	127.0	146.6	183.7	213.1	234.5	236.5	281.4	344.0	357.7	361.6	363.5
77.5°	101.6	136.8	134.8	172.0	191.5	187.6	220.8	265.8	277.5	277.5	277.5
80°	76.2	107.5	101.6	123.1	140.7	136.8	158.3	189.6	193.5	197.4	195.4
82.5°	56.7	68.4	68.4	78.2	93.8	89.9	105.6	123.1	123.1	123.1	127.0
85°	35.2	39.1	31.3	41.0	52.7	50.8	58.6	66.5	68.4	68.4	64.5
87.5°	21.5	17.6	9.8	15.6	23.5	23.5	27.3	29.3	27.3	27.3	27.3
90°	3.0	2.1	1.2	2.1	3.0	3.2	5.1	7.5	8.8	7.8	5.9
92.5°	20.3	12.5	4.6	12.5	20.3	22.3	31.4	43.5	49.5	43.4	31.1
95°	39.9	25.5	11.1	25.5	39.9	43.5	77.2	122.2	144.7	129.1	97.9
97.5°	44.6	31.9	19.2	31.9	44.6	47.7	104.0	179.0	216.5	206.7	187.0
100°	48.5	37.0	25.5	37.0	48.5	51.4	113.8	197.0	238.6	239.3	240.8
102.5°	52.3	41.6	30.8	41.6	52.3	55.0	118.3	202.7	244.9	257.4	282.5
105°	58.0	48.9	39.8	48.9	58.0	60.3	121.6	203.3	244.2	272.3	328.6
107.5°	66.0	57.5	49.0	57.5	66.0	68.1	122.2	194.3	230.3	269.6	348.0
110°	70.6	63.0	55.3	63.0	70.6	72.5	121.3	186.3	218.8	262.6	350.4



TEST NUMBER: P934123

CATALOG NUMBER: SQ4-FA-025U-125D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	76.0	68.8	61.4	68.8	76.0	77.8	121.3	179.3	208.2	253.1	342.9
115°	84.2	77.5	70.7	77.5	84.2	85.9	122.4	171.2	195.6	238.9	325.3
117.5°	92.0	85.9	79.8	85.9	92.0	93.6	124.7	166.2	187.0	226.0	304.0
120°	96.6	90.9	85.2	90.9	96.6	98.1	126.6	164.5	183.5	219.1	290.4
122.5°	101.9	96.2	90.3	96.2	101.9	103.4	129.2	163.6	180.8	212.9	277.1
125°	109.0	103.6	98.3	103.6	109.0	110.3	132.8	162.9	177.9	205.2	259.8
127.5°	115.5	110.1	104.8	110.1	115.5	116.8	136.4	162.5	175.5	198.9	245.8
130°	119.7	114.0	108.3	114.0	119.7	121.2	139.0	162.7	174.6	195.4	237.1
132.5°	123.4	117.7	111.9	117.7	123.4	124.8	141.1	162.9	173.8	192.4	229.8
135°	127.7	122.4	117.2	122.4	127.7	129.0	143.5	162.8	172.4	188.0	219.3
137.5°	133.0	127.8	122.7	127.8	133.0	134.3	146.9	163.8	172.2	185.4	211.8
140°	136.7	131.9	127.1	131.9	136.7	137.9	149.1	163.9	171.3	182.7	205.6
142.5°	139.4	135.0	130.6	135.0	139.4	140.5	150.8	164.5	171.3	181.3	201.4
145°	143.6	139.8	135.9	139.8	143.6	144.6	153.2	164.5	170.2	178.3	194.7
147.5°	148.8	145.0	141.2	145.0	148.8	149.7	156.5	165.6	170.2	176.6	189.5
150°	151.5	148.1	144.7	148.1	151.5	152.4	158.3	166.2	170.2	175.6	186.5
152.5°	153.5	150.8	148.3	150.8	153.5	154.1	159.5	166.6	170.2	174.8	184.1
155°	157.5	155.5	153.6	155.5	157.5	157.9	162.0	167.5	170.2	173.9	181.3
157.5°	161.2	159.4	157.5	159.4	161.2	161.7	164.5	168.3	170.2	173.0	178.8
160°	163.1	161.7	160.2	161.7	163.1	163.5	165.7	168.7	170.2	172.6	177.6
162.5°	165.0	163.9	162.9	163.9	165.0	165.3	166.9	169.1	170.2	172.2	176.4
165°	167.7	166.7	165.8	166.7	167.7	167.9	168.7	169.7	170.2	171.6	174.6
167.5°	169.3	168.9	168.4	168.9	169.3	169.5	170.1	170.9	171.3	172.3	174.3
170°	171.1	170.6	170.2	170.6	171.1	171.2	171.2	171.3	171.3	172.3	174.3
172.5°	171.3	171.2	171.1	171.2	171.3	171.3	171.3	171.3	171.3	172.1	173.6
175°	172.4	172.4	172.4	172.4	172.4	172.4	172.0	171.6	171.3	171.8	172.8
177.5°	172.4	172.4	172.4	172.4	172.4	172.4	172.1	171.7	171.6	171.9	172.7
180°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4



TEST NUMBER: P934123
 CATALOG NUMBER: SQ4-FA-025U-125D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	1993.5	1987.6	1995.4	1973.9	1995.4	1987.6	1993.5	2007.1	1995.4	2003.2	2011.0
5°	1749.1	1739.4	1708.1	1682.7	1708.1	1739.4	1749.1	1790.2	1809.7	1844.9	1891.8
7.5°	1563.5	1555.6	1547.9	1532.2	1547.9	1555.6	1563.5	1575.2	1594.7	1626.0	1661.2
10°	1522.4	1524.4	1536.2	1534.1	1536.2	1524.4	1522.4	1518.5	1512.7	1518.5	1540.0
12.5°	1628.0	1645.6	1710.1	1706.2	1710.1	1645.6	1628.0	1549.8	1497.0	1487.3	1491.2
15°	1749.1	1755.0	1768.7	1770.6	1768.7	1755.0	1749.1	1717.9	1559.6	1491.2	1469.7
17.5°	1760.8	1762.8	1772.6	1772.6	1772.6	1762.8	1760.8	1747.2	1694.4	1602.6	1481.4
20°	1751.1	1755.0	1774.5	1778.5	1774.5	1755.0	1751.1	1733.5	1704.2	1671.0	1579.1
22.5°	1747.2	1755.0	1770.6	1768.7	1770.6	1755.0	1747.2	1719.8	1694.4	1671.0	1633.9
25°	1727.6	1727.6	1729.6	1731.6	1729.6	1727.6	1727.6	1706.2	1655.3	1649.5	1628.0
27.5°	1686.6	1690.5	1702.2	1700.3	1702.2	1690.5	1686.6	1678.8	1624.1	1618.2	1602.6
30°	1649.5	1645.6	1635.8	1628.0	1635.8	1645.6	1649.5	1637.7	1583.0	1567.4	1571.3
32.5°	1587.0	1577.2	1567.4	1561.6	1567.4	1577.2	1587.0	1583.0	1542.0	1520.5	1524.4
35°	1512.7	1514.6	1512.7	1506.8	1512.7	1514.6	1512.7	1516.6	1491.2	1471.6	1469.7
37.5°	1459.9	1463.8	1461.8	1454.1	1461.8	1463.8	1459.9	1456.0	1420.8	1415.0	1418.9
40°	1405.2	1407.1	1405.2	1399.3	1405.2	1407.1	1405.2	1397.4	1348.5	1350.4	1364.1
42.5°	1352.4	1350.4	1344.6	1340.6	1344.6	1350.4	1352.4	1340.6	1278.1	1272.3	1297.7
45°	1291.8	1293.8	1282.0	1276.2	1282.0	1293.8	1291.8	1284.0	1219.5	1203.9	1221.5
47.5°	1231.2	1231.2	1221.5	1215.6	1221.5	1231.2	1231.2	1221.5	1153.1	1137.4	1147.2
50°	1166.8	1164.8	1151.2	1149.1	1151.2	1164.8	1166.8	1160.9	1088.5	1074.9	1074.9
52.5°	1092.5	1092.5	1094.4	1098.3	1094.4	1092.5	1092.5	1094.4	1030.0	1016.2	1012.3
55°	1028.0	1030.0	1043.7	1047.5	1043.7	1030.0	1028.0	1028.0	969.4	955.6	947.9
57.5°	961.6	961.6	971.3	971.3	971.3	961.6	961.6	957.6	901.0	889.2	885.3
60°	885.3	889.2	897.0	895.1	897.0	889.2	885.3	881.4	832.5	824.7	811.0
62.5°	805.2	809.1	811.0	807.1	811.0	809.1	805.2	793.5	764.1	758.3	740.7
65°	721.2	725.0	727.0	723.1	727.0	725.0	721.2	715.3	693.8	684.0	668.4
67.5°	635.2	633.2	631.2	639.1	631.2	633.2	635.2	627.3	613.7	605.8	584.4
70°	547.2	547.2	545.2	549.2	545.2	547.2	547.2	541.4	533.5	527.7	508.1
72.5°	453.4	451.5	459.3	453.4	459.3	451.5	453.4	451.5	447.5	441.7	422.1
75°	361.6	365.4	361.6	367.4	361.6	365.4	361.6	363.5	361.6	357.7	344.0
77.5°	275.6	279.5	275.6	275.6	275.6	279.5	275.6	277.5	277.5	277.5	265.8
80°	195.4	193.5	193.5	191.5	193.5	193.5	195.4	195.4	197.4	193.5	189.6
82.5°	125.0	123.1	123.1	127.0	123.1	123.1	125.0	127.0	123.1	123.1	123.1
85°	68.4	70.4	66.5	66.5	66.5	70.4	68.4	64.5	68.4	68.4	66.5
87.5°	25.4	23.5	23.5	23.5	23.5	23.5	25.4	27.3	27.3	27.3	29.3
90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.9	7.8	8.8	7.5
92.5°	21.9	21.1	17.6	14.1	17.6	21.1	21.9	31.1	43.4	49.5	43.5
95°	74.6	72.0	61.4	50.8	61.4	72.0	74.6	97.9	129.1	144.7	122.2
97.5°	172.2	167.2	147.1	126.9	147.1	167.2	172.2	187.0	206.7	216.5	179.0
100°	241.9	235.9	211.9	187.9	211.9	235.9	241.9	240.8	239.3	238.6	197.0
102.5°	301.4	296.2	275.7	255.1	275.7	296.2	301.4	282.5	257.4	244.9	202.7
105°	370.8	368.0	357.0	345.9	357.0	368.0	370.8	328.6	272.3	244.2	203.3
107.5°	406.9	407.6	410.2	412.9	410.2	407.6	406.9	348.0	269.6	230.3	194.3
110°	416.1	419.0	430.5	442.1	430.5	419.0	416.1	350.4	262.6	218.8	186.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	410.2	414.6	432.3	450.0	432.3	414.6	410.2	342.9	253.1	208.2	179.3
115°	390.2	396.3	420.8	445.4	420.8	396.3	390.2	325.3	238.9	195.6	171.2
117.5°	362.5	369.3	396.6	423.7	396.6	369.3	362.5	304.0	226.0	187.0	166.2
120°	344.0	350.6	377.0	403.4	377.0	350.6	344.0	290.4	219.1	183.5	164.5
122.5°	325.3	331.9	357.9	383.9	357.9	331.9	325.3	277.1	212.9	180.8	163.6
125°	300.7	306.7	330.6	354.7	330.6	306.7	300.7	259.8	205.2	177.9	162.9
127.5°	280.9	286.0	306.2	326.5	306.2	286.0	280.9	245.8	198.9	175.5	162.5
130°	268.3	273.0	291.8	310.5	291.8	273.0	268.3	237.1	195.4	174.6	162.7
132.5°	257.7	261.9	278.7	295.4	278.7	261.9	257.7	229.8	192.4	173.8	162.9
135°	242.7	246.3	260.7	275.2	260.7	246.3	242.7	219.3	188.0	172.4	162.8
137.5°	231.6	234.5	246.4	258.2	246.4	234.5	231.6	211.8	185.4	172.2	163.8
140°	222.7	225.5	236.5	247.6	236.5	225.5	222.7	205.6	182.7	171.3	163.9
142.5°	216.4	218.8	228.3	237.9	228.3	218.8	216.4	201.4	181.3	171.3	164.5
145°	207.1	208.8	216.1	223.3	216.1	208.8	207.1	194.7	178.3	170.2	164.5
147.5°	199.2	200.7	206.7	212.6	206.7	200.7	199.2	189.5	176.6	170.2	165.6
150°	194.7	195.9	200.7	205.6	200.7	195.9	194.7	186.5	175.6	170.2	166.2
152.5°	191.1	192.0	195.7	199.4	195.7	192.0	191.1	184.1	174.8	170.2	166.6
155°	186.8	187.4	189.8	192.3	189.8	187.4	186.8	181.3	173.9	170.2	167.5
157.5°	183.1	183.6	185.3	187.0	185.3	183.6	183.1	178.8	173.0	170.2	168.3
160°	181.3	181.5	182.5	183.5	182.5	181.5	181.3	177.6	172.6	170.2	168.7
162.5°	179.6	179.8	180.7	181.6	180.7	179.8	179.6	176.4	172.2	170.2	169.1
165°	176.9	177.1	178.1	179.1	178.1	177.1	176.9	174.6	171.6	170.2	169.7
167.5°	175.7	175.8	176.3	176.6	176.3	175.8	175.7	174.3	172.3	171.3	170.9
170°	175.7	175.7	175.7	175.7	175.7	175.7	175.7	174.3	172.3	171.3	171.3
172.5°	174.8	174.7	174.3	174.0	174.3	174.7	174.8	173.6	172.1	171.3	171.3
175°	173.6	173.6	173.6	173.6	173.6	173.6	173.6	172.8	171.8	171.3	171.6
177.5°	173.3	173.2	172.8	172.4	172.8	173.2	173.3	172.7	171.9	171.6	171.7
180°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2040.3	2050.1	2056.0	2063.8	2083.3
5°	1962.2	1999.3	2011.0	2040.3	2075.5
7.5°	1790.2	1903.5	1934.8	2005.2	2059.9
10°	1624.1	1737.4	1792.2	1958.3	2040.3
12.5°	1540.0	1606.5	1643.6	1876.2	2013.0
15°	1487.3	1534.1	1561.6	1766.8	1981.7
17.5°	1446.2	1479.5	1499.0	1659.3	1938.7
20°	1420.8	1436.4	1454.1	1581.0	1889.9
22.5°	1403.2	1393.5	1407.1	1526.4	1823.4
25°	1391.5	1354.4	1370.0	1483.3	1745.2
27.5°	1401.2	1319.2	1325.0	1444.3	1663.1
30°	1403.2	1276.2	1278.1	1403.2	1571.3
32.5°	1389.5	1231.2	1233.2	1352.4	1467.7
35°	1356.4	1178.5	1176.5	1293.8	1327.0
37.5°	1311.4	1121.8	1121.8	1229.3	1172.6
40°	1256.6	1065.1	1071.0	1145.2	1035.8
42.5°	1190.2	1004.5	1012.3	1033.9	934.2
45°	1117.9	945.9	951.8	873.6	856.0
47.5°	1037.7	885.3	887.3	725.0	830.6
50°	942.0	822.7	815.0	621.5	828.7
52.5°	857.9	754.4	731.0	562.9	752.4
55°	775.9	682.1	631.2	517.9	697.7
57.5°	703.5	588.3	539.4	465.2	686.0
60°	637.1	496.4	459.3	408.5	629.3
62.5°	582.4	428.0	420.2	369.4	570.6
65°	523.8	381.1	379.1	336.2	484.7
67.5°	467.1	349.8	347.9	304.8	369.4
70°	406.5	316.6	312.7	271.7	273.6
72.5°	344.0	279.5	275.6	244.3	226.7
75°	281.4	236.5	234.5	213.1	183.7
77.5°	220.8	187.6	191.5	172.0	134.8
80°	158.3	136.8	140.7	123.1	101.6
82.5°	105.6	89.9	93.8	78.2	68.4
85°	58.6	50.8	52.7	41.0	31.3
87.5°	27.3	23.5	23.5	15.6	9.8
90°	5.1	3.2	3.0	2.1	1.2
92.5°	31.4	22.3	20.3	12.5	4.6
95°	77.2	43.5	39.9	25.5	11.1
97.5°	104.0	47.7	44.6	31.9	19.2
100°	113.8	51.4	48.5	37.0	25.5
102.5°	118.3	55.0	52.3	41.6	30.8
105°	121.6	60.3	58.0	48.9	39.8
107.5°	122.2	68.1	66.0	57.5	49.0
110°	121.3	72.5	70.6	63.0	55.3



TEST NUMBER: P934123

CATALOG NUMBER: SQ4-FA-025U-125D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	121.3	77.8	76.0	68.8	61.4
115°	122.4	85.9	84.2	77.5	70.7
117.5°	124.7	93.6	92.0	85.9	79.8
120°	126.6	98.1	96.6	90.9	85.2
122.5°	129.2	103.4	101.9	96.2	90.3
125°	132.8	110.3	109.0	103.6	98.3
127.5°	136.4	116.8	115.5	110.1	104.8
130°	139.0	121.2	119.7	114.0	108.3
132.5°	141.1	124.8	123.4	117.7	111.9
135°	143.5	129.0	127.7	122.4	117.2
137.5°	146.9	134.3	133.0	127.8	122.7
140°	149.1	137.9	136.7	131.9	127.1
142.5°	150.8	140.5	139.4	135.0	130.6
145°	153.2	144.6	143.6	139.8	135.9
147.5°	156.5	149.7	148.8	145.0	141.2
150°	158.3	152.4	151.5	148.1	144.7
152.5°	159.5	154.1	153.5	150.8	148.3
155°	162.0	157.9	157.5	155.5	153.6
157.5°	164.5	161.7	161.2	159.4	157.5
160°	165.7	163.5	163.1	161.7	160.2
162.5°	166.9	165.3	165.0	163.9	162.9
165°	168.7	167.9	167.7	166.7	165.8
167.5°	170.1	169.5	169.3	168.9	168.4
170°	171.2	171.2	171.1	170.6	170.2
172.5°	171.3	171.3	171.3	171.2	171.1
175°	172.0	172.4	172.4	172.4	172.4
177.5°	172.1	172.4	172.4	172.4	172.4
180°	172.4	172.4	172.4	172.4	172.4



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.27	17.52	16.88	18.15	18.86	19.09	20.35	19.70	20.97	21.68
	3H	16.77	17.90	17.40	18.54	19.29	20.46	21.59	21.09	22.23	22.98
	4H	16.98	18.05	17.63	18.70	19.46	20.92	21.99	21.57	22.64	23.40
	6H	17.12	18.11	17.78	18.76	19.54	21.23	22.21	21.89	22.87	23.65
	8H	17.13	18.07	17.81	18.75	19.53	21.31	22.25	21.99	22.93	23.71
	12H	17.12	18.01	17.80	18.69	19.49	21.36	22.26	22.04	22.93	23.74
4H	2H	17.34	18.41	17.99	19.06	19.82	19.55	20.61	20.20	21.26	22.02
	3H	18.41	19.30	19.07	19.98	20.76	21.09	21.98	21.75	22.66	23.44
	4H	18.70	19.51	19.38	20.20	21.01	21.63	22.44	22.31	23.13	23.94
	6H	18.85	19.55	19.55	20.26	21.08	22.02	22.72	22.72	23.43	24.25
	8H	18.86	19.52	19.57	20.23	21.06	22.13	22.78	22.84	23.50	24.33
	12H	18.85	19.44	19.57	20.17	21.01	22.21	22.79	22.93	23.53	24.37
8H	4H	19.18	19.84	19.89	20.55	21.38	21.79	22.44	22.49	23.15	23.99
	6H	19.46	20.00	20.20	20.76	21.60	22.24	22.78	22.97	23.54	24.37
	8H	19.51	19.99	20.26	20.75	21.60	22.39	22.88	23.14	23.63	24.49
	12H	19.51	19.94	20.26	20.68	21.60	22.51	22.93	23.26	23.68	24.59
12H	4H	19.21	19.80	19.93	20.53	21.37	21.77	22.36	22.50	23.10	23.93
	6H	19.52	20.01	20.27	20.77	21.62	22.24	22.72	22.99	23.48	24.33
	8H	19.61	20.04	20.36	20.78	21.70	22.42	22.84	23.17	23.59	24.50